over the inordinate delay in sanctioning bonus/productivity linked bonus to then! by its management;

(b) if so, what are the reasons for the delay; and

(c) by when a final decision is expected to' be laken in the matter?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a) to (c). The National Hydro Electric Power Corporation have 'formulated a_n incentive scheme ! to power generation and project completion and the same is under consideration of Government.

Perro-cbemical refinery projects

2792. SHRI JAGDISH JANI; Will the Minister of PETROLEUM AND NATURAL GAS be pleased to stale :

(a) whether Government have taken any ion to take up some petro-chernical refinery projects during the. Seventh Five year Plan;

(b) if so, which are the petro-chemical refineries proposed to be started during the above plan period;

(c) the cost of each of those projects; and

(d) the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI NAWAL KISHORE SHARMA); (a) to (d) The Government *of* India i^s exploring the possibility of salting up the Mangalore Refinery as a. Joint Venture either as a 6 Million Tonnes Refinery or with an initial capacity of 3 Million $Tonne_s$ alongwith a Naphtha cracker which could meet the growing need of a pefro-chemical industry in the Country.

Depending upon the product pattern, the cost will vary from Rs. 900 crores to Rs. 1200 crores.

Apart from the above, there is no other proposal to take up a Petro-chemical refinery Protect during the seventh five Year

Power crisis in Orissa

2793. SHRI JAGADISH JANI: Wilt the Minister of ENERGY b_s pleased to state:

(a) $whethe_r$ Government are aware of the power crisis in Orissa;

(b) if so, the steps proposed to be taken to remove power crisis in the State:

(c) the major power projects proposed fo be extended in Orissa as a step towards removing power cris:;; asd

(d) the details thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a> Yes. Sir.

(b) to (d). In order to increase power availability in the State, Orissa is being assisted by neighbouring States like Andhra Pradesh and Madhya Pradesh to the extent possible. As a long term measure, additional generating capacity of 48.3.5 MW is programmed to be commissioned during the Seventh Plan period.

In addition. Orissa would also get benefit of 31 MW from Chukha Hydel Project of Bhutan (4x84 MW) and share of 75 MW from the Farakka STPS, Stage-I 3 X 210 MW) when theve units are conv missioned in the Seventh Plan.

Besides. Central assistance is being pro-

cher thermal power station.

2794. [Transferred to the 17th Decem ber. 1985.]

Electrification of villages in Allababan" Mirzapur and Varanasi

2795. SHRI SATYA PRAKASH MALAVIYA : Will the Minister of EN ERGY be pleased to state:

(a) the number of villages in Allahi-bad, Mirzapur and Varanasi (district-wise) in Uttar Pradesh which have not been electrified so far;

(b) by when they are likely to be electrified- and

(c) the total amount likely to be spent in the electrification, district-wise?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a) The number of villages not electrified in Allahabad, Mirzapur and Varanasi districts of Uttar Pradesh as. on 31-10-1985 are as under:—

Allahabad	—1088
Mirzapur	—2148
Varanasi	—1552

(b) Subject to availability of funds the remaining villages are likely to be electrified in the Seventh and Eighth. Five Year Plans.

(e) A plan outlay of Rs. 284.53 crores has been provided for Uttar Pradesh for rural electrification programme during Seventh. Plan, which will cover village electrification in the distrcts of Allahabad, Mirzapur and Varanasi.

Generation of energy by non-conventional energy sources

2796. DR. LOKESH CHANDRA: SHRI KAPIL VERMA: SHRI P. N. SUKUL:

Will the Minister of ENERGY be pleased to state:

(a) the number of ongoing projects to tap non-convei.tional solar, wind, tidal, biomass and biogas energy sources in the villages; and

(b) the estimated KWH to be generated by non-conventional sources by the end of the Seventh Five Year Plan period?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) Under the National Project on Bio-Gas Development, 1,50,000 family sized bio-gas plants are being installed this year. Under the project on improved chulhas 10 lakh such chulhas are being installed this year, 173 commnnity type bio-gas plants are under various stages of installation in different parts of the country. Under' the National wind mill Demonstration programme 500 wind pumps are being in led this year. 160 solar photovoltaic systems, 26 bio-mass energy projects and 6 solar thermal energy systems are under various stages of implementation in the rural areas. 28 Integrated Rural Renewable Energy System projects comprising a combination of various solar, wind, bio-energy systems at the village level are under installation in rural 'areas of the country.

(b) By the end of 7th Five Year Plaw total annual energy generation from ncn-conventional energy sources is estimated to reach more than 1,000 million KWH per year. In addition from the installation of the improved chulhas more than 35 lakh tonnes of firewood will be saved annually at the end of the Seventh Plan.

Solar power Plant

2797. DR. LOKESH CHANDRA: SHRI KAPIL VERMA: SHRI P. N. SUKUL:

Will the Minister of ENERGY be pleased to state:

(a) whether it is a fact that the Indian and Soviet scientists have devised a por table solar power plant capable of pum ping water and generating electricity;

(b) whether it is also a fact that this solar plant of 500 watts has worked for thousand hours; and

(c) whether it has been decided to put the solar plant into commercial production?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) Yes, Sir.

(b) and (c) The operation and costs °f the plant are being examined. The question of possible commercial production will be considered thereafter.